

Math Challenge #4



First Name: _____	Last Name: _____	Grade: _____
Teacher: _____	Parent's email: _____	

Draw it out or act it out!

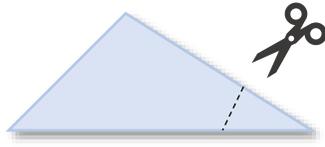
Welcome to the Math Challenge #4. Some math problems give us pretty clear directions to form equations. However, it is sometimes helpful to draw or make a visual representation of the math problem to solve it. We can draw a picture or a diagram to solve problems. Sometimes we can also act it out to come up with solutions.

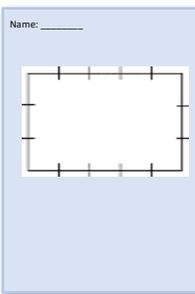
If you are new to any of the problem solving strategies, check out our complete overview of elementary problem solving strategies at <https://www.mathinaction.org/problem-solving-strategies.html>.

Kinder & First Grade: solve at least 3 problems.
Second & Third Grade: solve at least 7 problems.
Fourth Grade and above: solve at least 12 problems.

		<i>Answer</i>
1.	Sanjay wrote "MATH IS FUN" on a large poster board. He colored all the vowels red and the rest blue. How many letters are blue?	
2.	Anita had 2 more pencils than Daniel. Anita had 6 pencils. How many pencils did Anita and Daniel have altogether? 	
3.	 In the art room, Mr. Gupta set up some chairs. Nine children came in to the art room. Each child sits on a chair. There are 3 empty chairs left. How many chairs did Mr. Gupta set up?	
4.	A pencil cost 25 cents, and a sticker costs 10 cents less. How much do a pencil and a sticker cost altogether?	
5.	 Nelima wants to give \$25 to help kids who need school supplies. She gets \$10 a week for her allowance. She plans to spend \$3 a week from her allowance and set aside the rest for this effort. How many full weeks does it take her to be able to give the \$25?	

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<p>6. Cody cut a piece of paper into a triangle. He then made 3 cuts on each corner of the triangle. The first cut is shown on the diagram.</p> <p>a. How many sides does the new shape have?</p> <p>b. This shape has a name. What is it?</p>		<p>a. b.</p>
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<p>7. Mrs. Porter handed out her second-grade students a piece of paper that has a rectangle with edges marked. She asked students to draw a grid on the rectangle by connecting each mark to the one directly across from it on the opposite edge. The grid separates the rectangle into little squares. Each little square is one square unit. How many little squares are there in the grid?</p>		
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<p>8. Serena is putting up a tent for a neighborhood barbeque event. The tent is 20 feet by 10 feet. Each 5-foot section of the tent needs a post. How many posts will she need?</p>	
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<p>9. Jamal's bunny weighs 4 times as much as his kitten. If the bunny and kitten's combined weight is 20 pounds, what is the weight of his bunny?</p>		
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<p>10. Starting at the beginning of the year, Kianna was able to save \$215 each month. However for the last 3 months, she increases her saving to \$305 each month, and she plans to continue saving the same amount of money for 2 more months (until end of the year). What will be the amount of money Kianna save this year?</p>	
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<p>11. Chunhua sold 39 tickets for the school play. Ron sold twice as many as tickets as Lydia did. Altogether Chunhua, Ron and Lydia sold 90 tickets. How many tickets did Ron sell?</p>		
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	<p>12. Kanako is working on her math homework. She added two four-digit numbers and got the answer 4500. When she subtracted the smaller number from the larger number, she got the answer 1224. What are the two numbers?</p>	
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13.		<p>When two people shake hands, there is one handshake that occurs. If three people shake hands with each other, there will be 3 handshakes. If 6 people meet for a meeting and shake hands with each other, how many handshakes would occur?</p>	
14.		<p>Zach spent $\frac{7}{10}$ of his allowance on food. He then spent half of his remaining allowance on some markers and had \$3 left. How much was Zach's allowance?</p>	
15.		<p>Tairah loves to read. She goes to the library to borrow books every week. She borrows 15 more books in September than in August. In October, she borrowed half as many books as she did in August. How many books did she borrow in September if she had borrowed a total of 110 books for the three months (August, September and October)?</p>	
16.		<p>Aiwen finished reading her book in three days. On the first day, she read $\frac{2}{5}$ of the total number of pages. The ratio of the number of pages read on the second day to the third day is 3 to 5. If she read 18 more pages on the third day than on the second day, how many total pages does Aiwen's book have?</p>	
17.		<p>The Red Lightbulbs and the Wizards have solved a total of 225 math problems. The Red Lightbulbs solved 25% more problems than the Wizards. How many additional problems do the Wizards have to solve to tie the score?</p>	
18.		<p>25 students attended a winter choir open house. Out of these 25 students, there are 15 students who know each other and 10 new students who know no one. Students who know each other give high-five while students who do not know each other shake hands. How many handshakes occur in this open house?</p>	

Solution is available on November 18, 2022

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